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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,199	03/25/2004	Zhiqiang Zhang	AF207/2003	6012
26675 T550 LUGRZD08 WOOD, HERRON & EVANS, LLP 2700 CAREW TOWER			EXAMINER	
			COONEY, JOHN M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/809 199 ZHANG ET AL. Office Action Summary Examiner Art Unit John Cooney 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 30 November 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 8-26.28-35.37-44 and 46-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 8-26.28-35.37-44 and 46-51 is/are rejected. 7) Claim(s) 29 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 05 March 2004 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsherson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application 3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date _

6) Other:

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Applicant's arguments filed 11-30-07 have been fully considered but they are not persuasive.

Claim Objections

Claim 29 is objected to because of the following informalities: Claim 29 needs to be corrected to reflect dependency from the intended claim 23 or other appropriate claim rather than itself. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 8-15, 23-26, 28-35, 37-44 and 46-51 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicants set forth various ranges of values in their claims, particularly, (1.) the lower endpoint value, "0.01", for the range of release agent amount values in claim 8, 23, 32 and 41 and (2.) the ranges of amount values associated with the "humitant" claimed {rejected in Office action dated 5/17/07, & (3.) the range of values associated with the antiskinning agent of claims 50 and 51, that lack support in applicants' originally filed supporting disclosure. These ranges of values were not described in the specification in such a way as to

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reasonably convey to one skilled in the relevant art that appellants, at the time the application was filed, had possession of the invention as is now claimed.

This is a new matter rejection.

As to the range of values previously rejected, applicants' arguments are noted, but are unpersuasive because the reply offers nothing as to where support for the range of values associated with the humitant may be found.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8-26, 28-35, 37-44 and 46-51are rejected under 35 U.S.C. 103(a) as being unpatentable over Swarup et al.(6,087,444) in view of Reischl(4,310449) and Helber et al.(6,303,665).

Swarup et al. discloses preparations of coating compositions prepared from aqueous polyurethane dispersion along with other resins, including acrylic resins, siloxane surfactants as required by the claims, and polypropylene glycol added in amounts that read on applicants' claims (see column 2 line 20-column 10 line 66, and column 11 line 5 – column 13 line 29, as well as, the entire document). The antiskinning agent of applicants' claims 50-51 is met by the polypropylene glycol of

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Swarup et al. in light of applicants' indication in their disclosure that polyglycols are antiskinning agents of their invention. Additionally, their function as an "antioxidant" to the degree required by applicants' claims is an implicit effect associated with its employment owing to its make-up meeting the identified agents referred to as antiskinning agents in applicants' supporting disclosure.

Swarup et al. differs from applicants' claims in that it does not require the inclusion of polydimethylsiloxane. However, Reischl discloses the employment of polydimethylsiloxanes surfactants of applicants' claims in polyurethane dispersion applications for their system stabilizing effects (see column 22 lines 44-50, as well as. the entire document). Accordingly, it would have been obvious for one having ordinary skill in the art to have employed the polydimethylsiloxanes of Reischl as stabilizers in the preparations of Swarup et al. for the purpose of imparting their system stabilizing effect in order to arrive at the products of applicants' claims with the expectation of success in the absence of a showing of new or unexpected results. Though amounts of their employment are not specified, it has long been held that where the general conditions of the claims are disclosed in the prior art, discovering the optimal or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233; In re Reese 129 USPQ 402. Similarly, it has been held that discovering the optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272,205 USPQ 215 (CCPA 1980). Additionally, as polydimethylsiloxanes are also siloxanes, it is seen the siloxanes of applicants' claims are met by the combination of Reischl and Swarup et al.

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Swarup et al. differs from applicants' claim 49 in that it does not require the inclusion of alkanolamide. However, Helber et al. discloses the employment of alkanolamides as claimed by applicants in amounts as claimed by applicants in polyurethane dispersion applications for their system wetting and flow controlling effects (see column 6 lines 13-26, as well as, the entire document). Accordingly, it would have been obvious for one having ordinary skill in the art to have employed the alkanolamides of Helber et al. as wetting or flow control agents in the preparations of Swarup et al. for the purpose of imparting their surface active character and wetting and flow control effects in order to arrive at the products of applicants' claims with the expectation of success in the absence of a showing of new or unexpected results.

Applicants' arguments have been considered in light of the above grounds of rejection. However, rejection is maintained as proper.

Regarding applicants' comments and the employment of the transitional phrase "consisting essentially" the following from MPEP 2111.03 [R-3] is held to apply:

The transitional phrase "consisting essentially of" limits the scope of a claim to the specified materials or steps "and those that do not materially affect the basic and novel characteristic(s)" of the claimed invention. In re Herz, 537 F.2d 549, 551-52, 190 USPQ 461, 463 (CCPA 1976) (emphasis in original) (Prior art hydraulic fluid required a dispersant which appellants argued was excluded from claims limited to a functional fluid "consisting essentially of" certain components. In finding the claims did not exclude the prior art dispersant, the court noted that appellants' specification indicated the claimed composition can contain any well-known additive such as a dispersant, and there was no evidence that the presence of a dispersant would materially affect the basic and novel characteristic of the claimed invention. The prior art composition had the same basic and novel characteristic (increased oxidation resistance) as well as additional enhanced detergent and dispersant characteristics.). "A consisting essentially of claim occupies a middle ground between closed claims that are written in a consisting of format and fully open claims that are drafted in a

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comprisina' format." PPG Industries v. Guardian Industries, 156 F.3d 1351, 1354, 48 USPQ2d 1351, 1353-54 (Fed. Cir. 998). See also Atlas Powder v. E.I. duPont de Nemours & Co., 750 F.2d 1569, 224 USPQ 409 (Fed. Cir. 1984); In re Janakirama-Rao. 317 F.2d 951, 137 USPQ 893 (CCPA 1963); Water Technologies Corp. vs. Calco. Ltd., 850 F.2d 660, 7 USPQ2d 1097 (Fed. Cir. 1988). For the purposes of searching for and applying prior art under 35 U.S.C. 102 and 103, absent a clear indication in the specification or claims of what the basic and novel characteristics actually are. "consisting essentially of" will be construed as equivalent to "comprising," See, e.g., PPG, 156 F.3d at 1355, 48 USPQ2d at 1355 ("PPG could have defined the scope of the phrase consisting essentially of for purposes of its patent by making clear in its specification what it regarded as constituting a material change in the basic and novel characteristics of the invention."). See also AK Steel Corp. v. Sollac, 344 F.3d 1234, 1240-41, 68 USPQ2d 1280, 1283-84 (Fed. Cir. 2003) (Applicant's statement in the specification that "silicon contents in the coating metal should not exceed about 0.5% by weight" along with a discussion of the deleterious effects of silicon provided basis to conclude that silicon in excess of 0.5% by weight would materially alter the basic and novel properties of the invention. Thus, "consisting essentially of" as recited in the preamble was interpreted to permit no more than 0.5% by weight of silicon in the aluminum coating.); In re Janakirama-Rao, 317 F.2d 951, 954, 137 USPQ 893, 895-96 (CCPA 1963). If an applicant contends that additional steps or materials in the prior art are excluded by the recitation of "consisting essentially of," applicant has the burden of showing that the introduction of additional steps or components would materially change the characteristics of applicant's invention. In re De Lajarte, 337 F.2d 870, 143 USPQ 256 (CCPA 1964). See also Ex parte Hoffman, 12 USPQ2d 1061, 1063-64 (Bd. Pat. App. & Inter. 1989) ("Although consisting essentially of is typically used and defined in the context of compositions of matter, we find nothing intrinsically wrong with the use of such language as a modifier of method steps. . . [rendering] the claim open only for the inclusion of steps which do not materially affect the basic and novel characteristics of the claimed method. To determine the steps included versus excluded the claim must be read in light of the specification. . . . [I]t is an applicant's burden to establish that a step practiced in a prior art method is excluded from his claims by consisting essentially of language.").

Applicants have not met their burden of showing the showing that the introduction of the additional components of the combined prior art would materially change the characteristics of applicant's invention to the degree required by M.P.E.P. 2111.03, and examiner maintains that for the purposes of searching for and applying prior art under 35 U.S.C. 103, absent a clear indication in the specification or claims of

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what the basic and novel characteristics actually are, "consisting essentially of" will be construed as equivalent to "comprising." See, e.g., PPG, 156 F.3d at 1355, 48 USPQ2d at 1355.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Cooney whose telephone number is 571-272-1070. The examiner can normally be reached on Mr-F from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patient Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 868-217-9197 (Joil-Tee).

/John Cooney/

Primary Examiner, Art Unit 1796

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